



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 7, 2020

Debbie Ziehr
Compliance Supervisor
The Andersons Inc.
P.O. Box 119
Maumee, OH 43537

Subject: Registration Review Label Mitigation for Pendimethalin
Product Name: Anderson's Turf Fertilizer Plus Preemergent Weed Control
EPA Registration Number: 9198-177
Application Dates: 6/11/2018
Decision Numbers: 556375

Dear Ms. Ziehr:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Pendimethalin Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

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Decision No. 556375

If you have any questions about this letter, please contact Srijana Shrestha by phone at 703-305-6471, or via email at Shrestha.srijana@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Linda Arrington', with a stylized flourish at the end.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

ACCEPTED

Feb 07, 2020

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 9198-177

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PENDIMETHALIN

Group K1

HERBICIDE

ANDERSONS Turf Fertilizer Plus Preemergent Weed Control

- preemergent control of crabgrass, goosegrass, foxtail, chickweed, oxalis, spurge, knotweed and *Poa annua*
- Provides a feeding of potassium
- provides quick green-up plus extended feeding with controlled release SREF nitrogen (slow release encapsulated fertilizer)
- Controlled release Poly-S® nitrogen provides uniform growth with extended feeding *A portion of the urea has been coated to provide 2.5% coated slow-release nitrogen.
- readily available potassium
- provides readily available iron
- provides a feeding of nitrogen and potassium
- provides a one-to-one feeding of nitrogen and potassium
- contains pendimethalin for season-long broad spectrum weed control
- small particle formulation provides high particle count for herbicide distribution
- contains Poly-S nitrogen for controlled release of nitrogen
- premium formula, designed for golf course use
- contains potassium for turf stress resistance
- contains Poly-S® for controlled-release nitrogen feeding

Net Weight XX.XX lbs (XX.X kg)

This product contains 0.XXX lb. of Pendimethalin per lb. of product.

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals: CAUTION, causes eye irritation. Avoid contact with eyes, skin, or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. May be harmful if swallowed. Avoid inhalation. Do not contaminate feed or foodstuffs. Do not graze treated areas. Do not feed clippings to livestock.

FIRST AID

If swallowed: Call A poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If on skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-t-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling poison control center or doctor, or going for treatment. You may contact 1-800-757-8951 for emergency medical treatment information.

Personal Protective Equipment

Applicators and other handlers must wear: Long-sleeved shirt and long pants, chemical resistant gloves, made of waterproof materials, such as butyl rubber >14 mils, nitrile rubber >14 mils or neoprene rubber >14 mils, shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining personal protection equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash personal protection equipment separately from other laundry.

User Safety Recommendations: Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Environmental Hazards: This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes. In case of spills, either collect for use or dispose of properly.

Non-target organism advisory statement: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

ACTIVE INGREDIENT:

Pendimethalin†	0.75%
INERT INGREDIENTS:	<u>99.25%</u>
Total	100.00%

†CAS #40487-42-1

EPA Reg. No. 9198-177

EPA Est 538-OH-1S, 9198-OH-1M, 9198-OH-2B, 9198-AL-001A

Underlined letter is first letter used in run code on bag

Guaranteed Analysis

Total nitrogen (N)..... XX%
Available phosphate ((P₂O₅).....X%
Soluble potash (K₂O).....X%

Derived from:

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.regulatory-info-ap.com>

Product of USA

The Andersons, Inc.
PO Box 119
Maumee, OH 43537

RIGHT GUSSET

XXXX Andersons XX-XX-XX
 Golf Course ANDERSONS Turf Fertilizer Plus Preemergent Weed Control

LEFT GUSSET

XXXX Andersons XX-XX-XX
 Golf Course ANDERSONS Turf Fertilizer Plus Preemergent Weed Control

Prevents sprouting of the following grassy and dicot weeds and provides [a feeding of potassium –OR– a controlled-release nitrogen feeding]:

Grassy Weeds

Crabgrass
Foxtail
Goosegrass
Poa annua
Barnyardgrass
Fall panicum

Dicot Weeds

Chickweed Hop clover
Oxalis Henbit
Knotweed eveningprimrose
Prostrate spurge
Purslane
Cudweed

Directions for use

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

WEED RESISTANCE MANAGEMENT

For resistance management, this product is a Group K1 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group K1 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of this product or other Group K1 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and that considers mechanical control methods, cultural (e.g. timing to favor the desirable plants and not the weed), biological (weed-competitive varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include:
 - (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
 - (2) a spreading patch of non-controlled plants of a particular weed species;
 - (3) surviving plants mixed with controlled individuals of the same species.If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or a mechanical method.
Prevent movement of resistant weed seeds to other areas by cleaning equipment.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your sales representative, pest control advisors, or local extension specialist for additional pesticide resistance management and/or integrated weed management recommendations for specific types of plants and weed biotypes.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Workers Protection Standard 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: Long-sleeved shirt and long pants, chemical resistant gloves, made of waterproof materials, such as butyl rubber >14 mils, nitrile rubber >14 mils or neoprene rubber >14 mils, shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to use of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The Worker Protection Standard applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried or dusts have settled.

For use on any turfgrass site (lawns, sod, turf areas) including, but not limited to: grounds or lawns around residential and commercial establishments, golf courses, parks, athletic fields, schools, cemeteries, roadsides and sod farms.

For use on established turfgrasses including bentgrass, bermudagrass, and *Poa annua* (except putting greens and tees), Kentucky bluegrass, perennial ryegrass, fine fescue, tall fescue, St. Augustinegrass, bahiagrass, zoysiagrass, centipedegrass and blends of the grasses. See "Bermudagrass, Bentgrass and *Poa annua* Precautions" and "Limitation of Liability" statements.

Not for use on bentgrass, *Poa annua* and bermudagrass putting greens and tees, or on dichondra. Where bentgrass, bentgrass-containing turf and *Poa annua* are the desired species, a light rate application only is recommended.

How/When to Use

For control of annual grassy and broadleaf weeds such as crabgrass, goosegrass, foxtail, barnyardgrass, fall panicum, *Poa annua*, oxalis, knotweed, purslane, and prostrate spruce, apply in spring before they sprout.

To prevent *Poa annua* and fall germinating chickweed, apply product to dry foliage in late summer/early fall (before germination). Repeat application yearly for continued control. A repeat application made after *Poa annua* treatment should not be sooner than 4 months.

Where lower infestations are expected, the lighter rates may be used.

Apply product uniformly to dry foliage at the suggested rate with a properly calibrated spreader. For best results, water after application ($\frac{1}{4}$ - $\frac{1}{2}$ inch) to remove granules from the foliage and to move the product to the soil surface for an effective chemical barrier. Do not destroy the chemical barrier created at the soil surface by raking or aerifying as a segment to application. Allow at least a four month space between the applications except when repeat applications are necessary after 6-8 weeks.

Do not mow treated area until product has been watered in and turf foliage has dried.

Precautions

Do not use on bentgrass, *Poa annua* and bermudagrass putting greens and tees, or on dichondra. Where bentgrass and bentgrass-containing turf and *Poa annua* are the desired species, a light rate application only is recommended.

On cool season turfgrasses avoid applications when temperatures are regularly in the 80's.

This product may cause discoloration and thinning where overapplications have been made if the turfgrass is under severe stress conditions (disease, drought, low temperature – below 40°F, scalping, and excessive soil moisture).

Do not apply to dormant bentgrass and *Poa Annua* (turf that is not actively growing or has experienced frost).

When any preemergence herbicide is applied to dormant bermudagrass, green-up may be delayed 2 to 3 weeks in the spring. The delay in green-up may be extensive in low-cut bermudagrass and on sandy soils.

As with most other preemergence herbicides, application of this product to bermudagrass overseeded with cool season turfgrass species may injure and thin the overseeding.

Do not apply to bentgrass of *Poa annua* after late summer.

Avoid application to cement, stone, clothing or shoes. If contact occurs, brush off particles to prevent staining. If necessary, rinse with water.

If metallic surfaces (golf course equipment, automobiles, etc.) are present at the application site, do not use this product under windy conditions (5-10 MPH) due to its staining potential.

Properties of All Dinitroaniline (DNA) Products

May cause temporary slowing of turf fill-in and stolon-rhizome rooting where turf has been thinned. Requires a waiting period before seeding or sprigging.

Seeding or Sprigging Intervals after Treatment

Delay seeding by 3 months and sprigging by 5 months after application. Prior to planting, for best results, the soil surface should be disturbed or worked to dilute any remaining chemical residue.

Treatment Interval after Seeding or Sprigging

On newly planted areas, wait until the grass has been mowed at least 4 times and has filled in before making an application.

Notes

Do not apply more than a cumulative total of 400 lbs. of product/acre (3.0 lbs. active ingredient/acre) per year on bentgrass and *Poa annua*; 800 lbs. of product/acre (6.0 lbs. active ingredient/acre) per year on cool season turfgrass; and 1200 lbs. of product/acre (9.0 lbs. active ingredient/acre) per year on warm season turfgrasses.

Turfgrass Species	Weeds	Rates	Comments
Cool Season Grasses	Crabgrass Foxtail	200 – 266 lbs./acre as the initial application prior to weed germination	Apply a repeat application of 167 – 200 lbs/acre after 6 – 8 weeks for extended control or where heavy weed infestations are expected
Kentucky bluegrass	<i>Poa annua</i>		
Perennial ryegrass	Barnyardgrass		
Fine fescue	Fall panicum		
Tall fescue	Oxalis Prostrate		
	spurge Purslane Knotweed Chickweed		

	Goosegrass	200 – 266 lbs./acre in the spring prior to weed germination. Apply a repeat application after 6 – 8 weeks at 200 – 233 lbs./acre	
Bentgrass and established <i>Poa Annua</i> (1/2 inch height or taller). Not for use on greens and tees	Crabgrass Foxtail <i>Poa annua</i> Barnyardgrass Fall panicum Oxalis Prostrate spurge Purslane Knotweed Chickweed	200 lbs./acre in the spring prior to weed germination	Apply a repeat application of 167 – 200 lbs/acre after 6 – 8 weeks for extended control or where heavy weed infestations are expected
	Goosegrass	200 lbs./acre in the spring prior to weed germination with a repeat application of 200 lbs./acre after 6 – 8 weeks	
Warm Season Grasses Bermudagrass St. Augustinegrass Bahiaigrass Zoysiagrass Centipedegrass (401 lbs./acre rate or less) Tall fescue (Not for use on greens and tees)	Crabgrass Foxtail <i>Poa annua</i> Barnyardgrass Fall panicum Oxalis Prostrate spurge Purslane Knotweed Chickweed	200 – 266 lbs./acre prior to weed germination	Apply a repeat application of 167 – 200 lbs./acre after 6 – 8 weeks for extended control or where heavy weed infestations are expected
		<u>OR</u> (OPTIONAL WORDING) 266 lbs./acre may be used prior to weed germination with a repeat application of 200 lbs./acre after 4 months where weeds germinate over an extended period. (Do not use this high rate on centipedegrass)	
	Goosegrass Cudweed Hop clover Evening-primrose Henbit	200 - 266 lbs./acre prior to weed germination with a repeat application of 200 – 266 lbs./acre after 6 – 8 weeks.	
<u>OR</u> (NOTE TO EPA – OPTIONAL WORDING)			

Goosegrass	200 – 266 lbs./acre prior to weed germination	Apply a repeat application of 200 – 266 lbs./acre to extend control of goosegrass or if the lower rate was used initially
Cudweed Hop clover Evening-Primrose Henbit	200 - 266 lbs./acre prior to weed germination	Apply a repeat application of 200 – 233lbs./acre after 6 – 8 weeks if the lower rate was used initially

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a clean, dry place. Reseal opened bag boy folding top down and securing.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If not available, then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Suggested Spreader Settings

To provide proper distribution calibrate spreader before application.

Do not adjust rates in order to meet fertilizer requirements of your soil.

XX lbs. treats XX,XXX sq.ft. (xx acre) at the 167 lbs. product/acre – LIGHT RATE (3.83 lbs./1,000 sq. ft.)

XX lbs. treats XX,XXX sq.ft. (xx acre) at the 200 lbs. product/acre – LOW RATE (4.59 lbs./1,000 sq. ft.)

XX lbs. treats XX,XXX sq.ft. (xx acre) at the 233 lbs. product/acre – MEDIUM RATE (5.35 lbs./1,000 sq. ft.)

XX lbs. treats XX,XXX sq.ft. (xx acre) at the 266 lbs. product/acre – HIGH RATE (6.10 lbs./1,000 sq. ft.)

			SPREADER SETTINGS			
SPREADER	GROUND SPEED	WIDTH OF COVERAGE	LIGHT RATE 1.25 LBS. AI/a	LOW RATE 1.50 LBS. AI/a	MEDIUM RATE 1.75 LBS. AI/a	HIGH RATE 2.00 LBS. AI/a
aa	X mph	Overlap wheels	X	X	X	X
bb	X mph	XX feet	X	X	X	X
cc	X mph	XX feet	X	X	X	X
dd	X mph	XX feet	X	X	X	X

Note: spreaders will be listed on final label and will vary according to market availability and demand.

IMPORTANT: READ BEFORE USE:

Read the entire Directions for Use and the Warranty Disclaimer and Limitation of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or Buyer accepts the following Warranty Disclaimer and Limitation of Liability:

WARRANTY DISCLAIMER and LIMITATION of LIABILITY:

Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions. Manufacturer makes NO OTHER EXPRESS OR IMPLIED WARRANTY OF

MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. To the extent consistent with applicable law, it is Manufacturer's intent to LIMIT ANY LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL ECONOMIC DAMAGES to refund of purchase price or replacement of product, at Buyer's choice. To the extent consistent with applicable law, Manufacturer DISCLAIMS ANY LIABILITY FOR COMPENSATORY OR OTHER DAMAGES ARISING OUT OF ANY USE CONTRARY TO LABEL DIRECTIONS. Use contrary to label directions is not permitted.

LEGAL RIGHTS:

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS; YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE/JURISDICTION TO STATE/JURISDICTION.

Manufactured by:
The Andersons, Inc.
PO Box 119
Maumee, OH 43537

Date Printed	5/17/19
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Supersedes	Transfer
Label changes	Amendment – Pendimethalin 2018 Interim Review Decision
Filename	9198-177
Label code	RVamd051719